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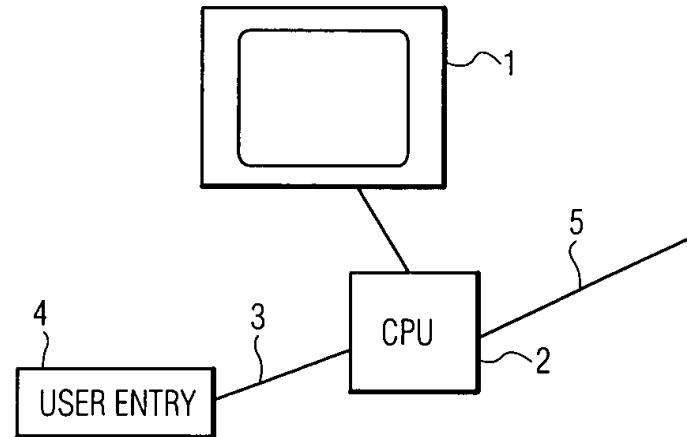


FIG. 1

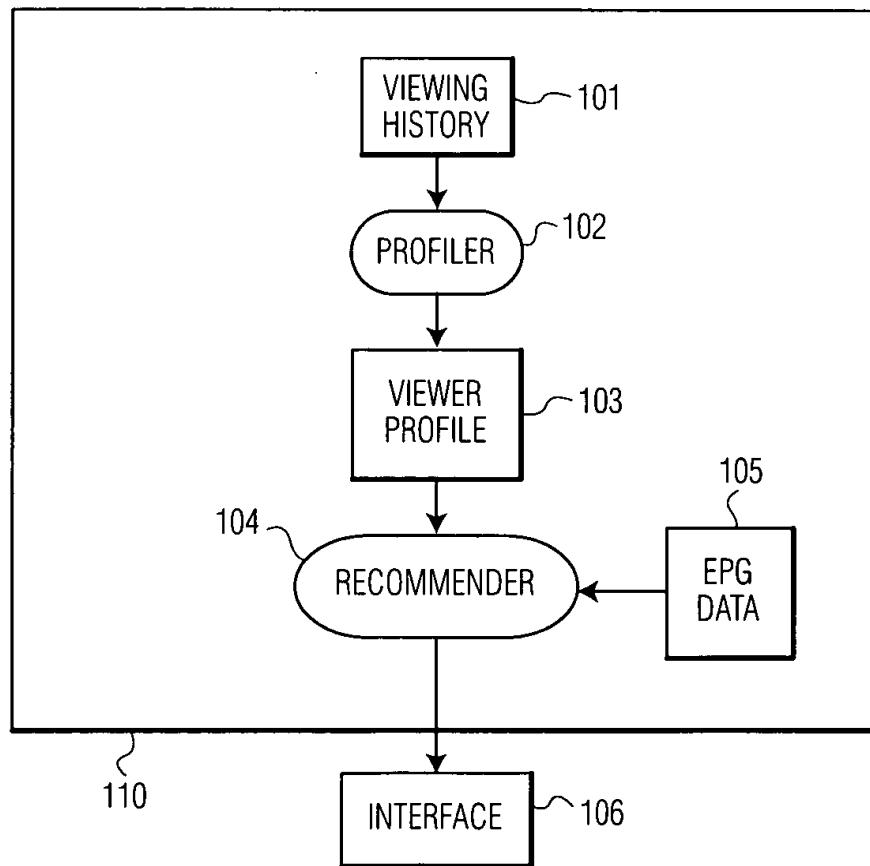


FIG. 2

LET S BE ALL SHOWS NOT WATCHED IN THE 7 DAYS PRIOR TO
AND INCLUDING THE CURRENT DAY.

LET N BE 1.

FOR EACH TV SHOW WATCHED

ENTER THE WATCHED SHOW IN THE VIEWING HISTORY
AS A POSITIVE EXAMPLE.

SELECT A SUBSET S OF SHOWS NOT WATCHED

SELECT AT RANDOM N SHOWS FROM SET S AND ENTER
THEM IN THE VIEWING HISTORY AS NEGATIVE EXAMPLES.

IF AN EXPLICIT VIEWER PROFILE IS AVAILABLE, THEN THE
RANDOM SELECTION CAN BE BIASED AWAY FROM SHOWS
"LIKED" AND TOWARDS SHOWS "NOT LIKED."

FIG. 3

FIELD	DESCRIPTION
\$DATE	YYYYMMDD
\$AIR_TIME	HHMM (E.G. SOME VALUE IN THE RANGE 0000-2359)
\$STATION_SIGN	4 CHARACTERS (E.G. WABC)
\$TITLE	120 CHARACTERS (E.G. "ANTIQUES ROADSHOW")
\$DESC	120 CHARACTERS (E.G. "SKULLY VISITS ALIEN SPACECRAFT")
\$GENRE	20 CHARACTERS (E.G. "SCIENCE FICTION")
\$ACTORS	120 CHARACTERS (E.G. "JOHN DOE, JANE DOE")
\$DIRECTORS	120 CHARACTERS (E.G. "JOHN HITCHCOCK")
\$HOSTS	120 CHARACTERS (E.G. "JOHN HOST")
\$PRODUCERS	120 CHARACTERS (E.G. "JANE RICH, JOHN MONEYBAGS")
\$WRITERS	120 CHARACTERS (E.G. "JOHN POET")

FIG. 4

TOTALIPROGRAMS	55	55	DESCILOCAL	4	0
DAYTIMEIMON2100	5	0	DESCINECESSARY	6	0
DAYTIMEIMON2200	6	1	DESCIPRIMETIME	5	0
DAYTIMEITUE2200	4	1	DESCIPROGRAMMING	4	0
DAYTIMEIWED2000	4	0	TV RATINGITV14	6	3
DAYTIMEIWED2200	6	0	TV RATINGITVG	0	4
STATIONIWABC	10	1	SEX RATINGIN	51	52
STATIONIWNBC	30	0	LANGUAGE RATINGIN	51	50
STATIONIWNYW	13	0	ADVISORYIADULT SITUATIONS	0	8
TITLEI20/20	5	0	ADVISORYILANGUAGE	0	5
TITLEIDATELINE NBC	11	0	MPAA RATINGIR	0	4
TITLEIMLB PLAYOFFS	10	0	STAR RATINGI**+	0	5
TITLEIPAID PROGRAMMING	0	5	PROGRAM LANGUAGEIENGLISH	51	52
GENREIANIMATED	0	4	COUNTRY OF ORIGINIUNITED STATES	0	7
GENREIBASEBALL	13	1	EPISODE TITLEIGAME	7	0
GENREICOMEDY	4	8	EPISODE TITLEILEAGUE	4	0
GENREIFOOTBALL	4	0	EPISODE TITLEINEW	5	0
GENREIMAGAZINE	18	0	EPISODE TITLEISERIES	9	0
GENREINNEWS	22	4			
GENREIREALITY	4	1			
GENREISITUATION	3	5			
GENREISPORTS EVENT	15	2			
GENREITALK	18	3			
DESCIALLY	6	0			
DESCIIF	6	0			
DESCIMCBEAL	4	0			
DESCIALTERNATE	5	0			
DESCIGAME	4	0			
DESCILINEUP	5	0			

$$T = k(C+) + k(C-)$$

$$P(C+) = k(C+)/T$$

$$P(C-) = k(C-)/T$$

FIG. 6A

$$P(\text{fil}C+) = k(\text{fil}C+)/k(C+)$$

$$P(\text{fil}C-) = k(\text{fil}C-)/k(C-)$$

FIG. 6B

$$P(C+|x) = P(x|C+)P(C+)/P(x)$$

$$P(C-|x) = P(x|C-)P(C-)/P(x)$$

WHERE

$$P(x) = P(x|C+)P(C+) + P(x|C-)P(C-)$$

$$P(x|C+) = \prod_{i=1}^n P(\text{fil}C+)^{x_i} (1-P(\text{fil}C+))^{1-x_i}$$

n = number of features in profile

f_i = the i^{th} feature in the profile is a bit string

of length n , where the i^{th} bit indicates the

$x = \{0,1\}^n$ presence (1) or absence (0) of
feature f_i in the program

FIG. 6C